



(Pages : 2)

3385

Reg. No. :

Name :

Fourth Semester M.Com. Degree Examination, June 2009
(New Scheme-2005 Admission)
Elective – Finance

CO 241 F – Paper – I : MANAGEMENT OPTIMIZATION TECHNIQUES

Time : 3 Hours

Max. Marks : 75

SECTION – A

Answer **all** questions. **Each** question carries **2** marks.

1. What is Pre-modeling ?
2. What is meant by Network theory ?
3. What is Sequencing ?
4. Define Simulation.
5. What is Game Theory ?
6. What is Probabilistic Programming ?
7. Define sub-optimization.
8. What is Waiting Line Theory ?
9. What is Icononic Model ?
10. What is Iso-profit line ?

(10×2=20 Marks)

SECTION – B

Answer **any five** questions. **Each** question carries **5** marks.

11. What are the limitations of Linear Programming Models ?
12. Explain the purpose of the simplex method.

P.T.O.

3385



- 13. What are the characteristics of dual problem ?
- 14. When is solution to a transportation problem said to be a ‘degenerate one’ ?
- 15. Show how to balance the transportation model when it is unbalanced ?
- 16. What is an Assignment problem ?
- 17. What do you understand by pure strategies and saddle point ? (5×5=25 Marks)

SECTION – C

Answer **any two** questions. **Each** question carries **15** marks.

- 18. State the circumstances where CPM is a better techniques of project management than PERT.
- 19. On an average, 5 customers reach a barber’s shop every hour. Determine the probability that exactly 2 customers will reach in a 30-minute period, assuming that the arrivals follow Poisson distribution.
- 20. The cost of a machine in Rs. 6500 and its scrap value is only Rs. 500 whenever disposed. The maintenance costs are found to be as under on the basis of experience.

Year :	1	2	3	4	5	6	7	8
Maintenance cost (Rs.) :	100	250	400	600	900	1250	1800	2500

- 21. A company has determined from its analysis of production and accounting data that, for a part number Kc-438 the annual demand is equal to 10000 units, the cost to purchase the item is Rs. 36 per order, and the holding cost Rs. 2/unit/year. Determine the Economic Ordering Quantity (2×15=30 Marks)
